APPARATUS AND METHOD FOR SELECTING PROGRAM
HALTS IN AN UNPROTECTED PIPELINE AT NON-
INTERRUPTIBLE POINTS IN CODE EXECUTION

**Abstract of the Invention**

1    In a target processor having a non-protected pipeline, the
2    execution code is typically provided with interruptible
3    code portions and with non-interruptible code portions.
4    The non-interruptible code portions prevent implementation
5    of a real time interrupt that would corrupt the code so
6    that execution could not be resumed.  A storage unit is
7    provided that stores a signal permitting a code execution
8    halt even during a non-interruptible code portion.  In this
9    manner, a program developer can determine the state of the
10   processor at any point in the code execution.